

PATENT

Attorney Docket No.: 67686/00-602

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FORM PTO-1449 (Modified)

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Attorney Docket No.: 67686/00-602

Applicant(s): De la Fuente et al.

Title: Immunoprotective recombinant antigen from anaplasma marginale, vaccine compositions and methods of use

Serial No. (10/002,636

Filing Date: 10/26/2001

Group: 1653 1645

Examiner: Unknown

U.S. PATENT DOCUMENTS

Examiner Initials		Document No.	Date	Name	Class	Subclass
M	AA	6,025,338	02/15/2000	Barbet et al.	514	44
M	AB	5,869,335	02/09/1999	Munderloh et al.	435	348
m	AC	5,798,219	08/25/1998	Knowles et al.	435	7.93
M	AD	5,549,898	08/27/1996	McGuire et al.	424	269.1
M	AE	4,956,278	09/11/1990	Hart et al.	435	30

FOREIGN PATENT DOCUMENTS

Examiner Initials		Document No.	Date	Name (Inventors)	Class	Translation Yes / No
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Examiner Initial		(Including Author, Title, Date, Pertinent Pages, Etc.)
M	AP	McGarey DJ, Barbet AF, Palmer GH, McGuire TC, Allred DR. Putative adhesins of <i>Anaplasma marginale</i> : major surface polypeptides 1a and 1b. Infect Immun 1994; 62: 4594-4601.
M	AQ	Munderloh UG, Blouin EF, Kocan KM, Ge NL. Establishment of the tick (Acari: Ixodidae)-borne cattle pathogen <i>Anaplasma marginale</i> (Rickettsiales: Anaplasmataceae) in tick cell culture. J Med Ent 1996; 33: 656-664.
M	AR	Oberle SM, Palmer GH, Barbet AF, McGuire TC. Molecular size variations in an immunoprotective protein complex among isolates of <i>Anaplasma marginale</i> . Infect Immun 1988; 56: 1567-1573.
M	AS	Palmer GH, Barbet AF, Cantor GH, McGuire TC. Immunization of cattle with the MSP-1 surface protein complex induces protection against a structurally variant <i>Anaplasma marginale</i> isolate. Infect Immun 1989; 57: 3666-3669.
\mathcal{M}	AT	Palmer GH, McElwain TF. "Molecular basis for vaccine development against anaplasmosis and babesiosis." Vet Parasitol: 1995; 57: 233-253.
M	AU	Palmer GH, Waghela SD, Barbet AF, Davis WC, McGuire TC. Characterization of a neutralization-sensitive epitope on the AM 105 surface protein of <i>Anaplasma marginale</i> . J Parasitol 1987; 17: 1279-1285.
M	AV	Viseshakul N, Kamper S, Bowie MV, Barbet AF. Sequence and expression analysis of a surface antigen gene family of the rickettsia <i>Anaplasma marginale</i> . Gene 2000; 253: 45-53.

EXAMINER MANAGULA

DATE CONSIDERED

3/14/03

Examiner:

Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance. Include copy of this form with next communication to applicant.

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OTHER ART

Examiner Initial		(Including Author, Title, Date, Pertinent Pages, Etc.)	
M	AG	Allred DR, McGuire TC, Palmer GH, Leib SR, Harkins TM, McElwain TF, Barbet AF. Molecular basis for surface antigen size polymorphisms and conservation of a neutralization-sensitive epitope in <i>Anaplasma marginale</i> . Proc Natl Acad Sci USA 1990; 87: 3220-3224.	
M	АН	Barbet AF, Blentlinger R, Jooyoung Y, Lundgren AM, Blouin EF, Kocan KM. Comparison of surface proteins of <i>Anaplasma marginale</i> grown in tick cell culture, tick salivary glands, and cattle. Infect Immun 1999; 67: 102-107.	
M	AI	Barbet AF, Palmer GH, Myler PJ, McGuire TC. Characterization of an immunoprotective protein complex of <i>Anaplasma marginale</i> by cloning and expression of the gene coding for polypeptide AM 105L. Infect Immun1987; 55: 2428-2435.	
MM	AJ	Blouin EF, Barbet AF, Jooyoung Y, Kocan KM, Saliki JT. Establishment and characterization of an Oklahoma isolate of <i>Anaplasma marginale</i> in cultured <i>Ixodes scapularis</i> cells. Vet Parasitol 1999; 87: 301-313.	
M	AK	Blouin EF, Kocan KM. Morphology and development of <i>Anaplasma marginale</i> (Rickettsiales: Anaplasmataceae) in cultured <i>Ixodes scapularis</i> (Acari:Ixodidae) cells. J Med Entomol 1998; 35: 788-797.	
\mathcal{M}	AL	De la Fuente J, Garcia-Garcia JC, Blouin EF, Kocan KM. Differential adhesion of major surface proteins 1a and 1b of the ehrlichial cattle pathogen <i>Anaplasma marginale</i> to bovine erythrocytes and tick cells. Int. J. Parasitol. 2001; 31: 145-153.	
1111	AM	De la Fuente J, Van Den Bussche RA, Kocan KM. Molecular phylogeny and biogeography of North American isolates of <i>Anaplasma marginale</i> (Rickettsiaceae: Ehrlichieae). Vet Parasitol 2001; 97: 65-76.	
1////	AN	Kocan KM, Blouin EF, Barbet AF. Anaplasmosis control: past, present and future. Ann NY Acad Sci, 2000; 916: 501-509.	
m	ł	McGarey DJ, Allred DR. Characterization of hemagglutinating components on the <i>Anaplasma marginale</i> initial body surface and identification of possible adhesins. Infect Immun 1994; 62: 4587-4593.	

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